

6531585

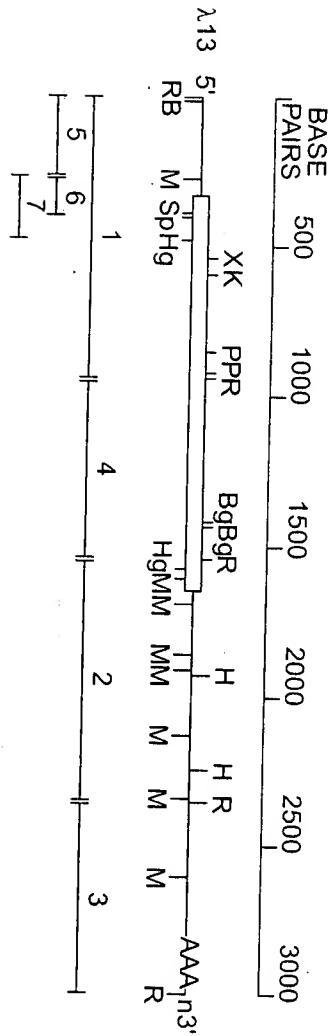
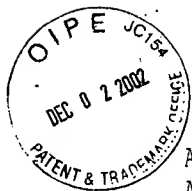


FIG. 1



CGGGGTAGGATCCGGAACGCATTCGGAAGGCTTTTGTCAAGCATTACTTGAAGGAGAACTTGGGATCTTTCTG 75
GGAACCCCCCGCCGGCTGGATTGGCCGAGCAAGCCTGGAATAATGTAATGATCATTTGGATCAATTACAGGC 150
TTTATAGCTGGCTGTCTGTCAATAATCATGATTCGGGGCTGGGAAAAAGACCAACGCCTACGTGCCAAAAAAGG 225
GGCAGAGTTTGATGGAGTTGGCTGGACTTTTCTATGCCATTTCCTCCACACCTAGAGGATAAGCACTTTTGCAG 300
MetPheAspCysMetAspValLeuSerValSerProGlyGlnIleLeuAspPhe
ACATTCAGTGCAAGGGAGATCATGTTTGACTGTATGGATGTTCTGTCACTGAGTCTGGGCAATCCTGGATTTC 375
20 30 40
TyrThrAlaSerProSerSerCysMetLeuGlnGluLysAlnLeuLysAlaCysPheSerGlyLeuThrGlnThr
TACACTGCGAGTCCGCTTCTCTGCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCACTGGATTGACCCAAACC 450
50 60
GluTrpGlnHisArgHisThrAlaGlnSerIleGluThrGlnSerThrSerSerGluGluLeuValProSerPro
GAATGGCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACCTCGTCCCAAGCCCC 525
70 80 90
ProSerProLeuProProProArgValTyrLysProCysPheValCysGlnAspLysSerSerGlyTyrHisTyr
CCATCTCCACTTCTCTCCCTCGAGTGTACAAACCTGCTTCGTCTGCCAGGACAATCATCAGGGTACCCTAT 600
100 110
GlyValSerAlaCysGluGlyCysLysGlyPhePheArgArgSerIleGlnLysAsnMetIleTyrThrCysHis
GGGTCAGCGCTGTGAGGAGTCAAGGCTTTTCCGCAGAAGTATTGAGAAGATATGATTTACACTTGTAC 675
120 130 140
ArgAspLysAsnCysValIleAsnLysValThrArgAsnArgCysGlnTyrCysArgLeuGlnLysCysPheGlu
CGAGATAAGAACTCTGTTTATTAATAAAGTCACCAGGAATCGATGCCAATCTCTGCACTCCAGAAGTCTTGAA 750
150 160
ValGlyMetSerLysGluSerValArgAsnAspArgAsnLysLysLysLysGluThrSerLysGlnGluCysThr
GTGGGAATGTCCAAGAATCTGTGACGAATCACAGGAACAAGAAAAAGAGAGACTTCGAAGCAAGAATGCACA 825
170 180 190
GluSerTyrGluMetThrAlaGluLeuAspAspLeuThrGluLysIleArgLysAlaHisGlnGluThrPhePro
GAGAGCTATGAAATGACAGCTGAGTTGGACGATCTCACAGAGAAGATCCGAAAAGCTCACCAGGAACTTTCCCT 900
200 210
SerLeuCysGlnLeuGlyLysTyrThrThrAsnSerSerAlaAspHisArgValArgLeuAspLeuGlyLeuTrp
TCACTCTGCCAGCTGGGTAAATACACCAGAAATCCAGTGTGACCATCGAGTCCGACTGGACCTGGGCTCTGG 975
220 230 240
AspLysPheSerGluLeuAlaThrLysCysIleIleLysIleValGluPheAlaLysArgLeuProGlyPheThr
GACAAATTCAGTGAATGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGTCTGCCTGGTTTCACT 1050
250 260
GlyLeuThrIleAlnAspGlnIleThrLeuLeuLysAlaAlaCysLeuAspIleLeuIleLeuArgIleCysThr
GGCTTGACCATCGCAGACCAAAATACCTGCTGAAGCCGCTGCCTGGACATCCTGATTCTTAGAATTTGCACC 1125

FIG. 2A



ArgTyrThrProGluGlnAspThrMetThrPheSerAspGlyLeuThrLeuAsnArgThrGlnMetHisAsnAla
AGGTATACCCAGAACACACCATGACTTTCTCAGACGGCCTTACCCATAATCGAACTCAGATGCACAATGCT 1200
300 310
GlyPheGlyProLeuThrAspLeuValPheThrPheAlaAsnGlnLeuLeuProLeuGluMetAspAspThrGlu
GGATTGGTCTCTGACTGACCTTGTGTTACCTTTGCCAACCAGCTCTGCCTTTGGAATGGATGACACAGAA 1275
320 330 340
ThrGlyLeuLeuSerAlaIleCysLeuIleCysGlyAspArgGlnAspLeuGluGluProThrLysValAspLys
ACAGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAG 1350
350 360
LeuGlnGluProLeuLeuGluAlaLeuLysIleTyrIleArgLysArgArgProSerLysProHisMetPhePro
CTACAAGAACCATTGCTGGAAGCACTAAAAATTTATATCAGAAAAAGACGCCAGCAAGCCTCACATGTTTCCA 1425
370 380 390
LysIleLeuMetLysIleThrAspLeuArgSerIleSerAlaLysGlyAlaGluArgValIleThrLeuLysMet
AAGATCTTAATGAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTAATTACCTTGAAAAATG 1500
400 410
GluIleProGlySerMetProProLeuIleGlnGluMetMetGluAsnSerGluGlyHisGluProLeuThrPro
GAAATTCCTGGATCAATGCCACCTCTCATTCAAGAAATGATGGAGAATTCTGAAGGACATGAACCCCTTGACCCCA 1575
420 430 440
SerSerSerGlyAsnThrAlaGluHisSerProSerIleSerProSerSerValGluAsnSerGlyValSerGln
AGTTCAAGTGGGAACACAGCAGACAGACAGCTCTAGCATCTCACCAGCTCAGTGGAAAAAGTGGGGTCAGTCAG 1650
SerProLeuValGlnSTOP
TCACCACTCGTGCAATAAGACATTTTCTAGTACTTCAAACATTCCCCAGTACCTTCAGTTCAGGATTTAAAAAT 1725
GCAAGAAAAACATTTTACTGTGCTTAGTTTTTGGACTGAAAAGATATTAAGTCAAGAAGACCAAGAAGT 1800
TTTCATATGTATCAATATATATACTCCTCACTGTGTAACCTTACCTAGAAATACAACTTTTCCAATTTTAAAAAA 1875
TCAGCCATTTTCATGAACCCAGAACTAGTTAAAGCTTCTATTTTCTCTTTGAACACTCAAGATGCATGGCAAA 1950
GACCCAGTCAAAATGATTTACCCCTGGTTAAGTTTCTGAAGACTTTGTACATACAGAGTATGGCTCTGTTCTTT 2025
CTATACTGTATGTTTGGTGTCTTCTTTTCTGTGCTACTCAAAATAACCATGACACCAAGGTTATGAAATAGA 2100
CTACTGTACACGTCTACCTAGGTTCAAAAGATACTGTCTTGCTTTTCATGGAATAGTCAAGACATCAAGGTAAG 2175
GAAACAGGACTATTGACAGGACTATTGTACAGTATGACAAGATAAGGCTGAAGATATCTACTTTAGTTAGTATG 2250
GAAGCTTGCTTTGCTCTTTCTGATGCTCTCAAACTGCATCTTTTATTCATGTTGCCAGTAAAAGTATACAAA 2325
TTCCCTGCACTAGCAGAAGAGAATTCTGTATCAGTGAAGTCCAGTTCAGTTAATCAAAATGTCATTTGTTCAAT 2400
TGTTAATGTCACCTTTAAATTAAGTGGTTTATTACTTGTTTAATGACATAACTACACAGTTAGTTAAAAAAAT 2475
TTTTTTACAGTAATGATAGCCTCCAAGGCAGAAACACTTTTCAGTGTAAAGTTTTTGTGTTACTTGTTCACAAGCC 2550
ATTAGGGAATTTTCATGGGATAATTAGCAGGCTGGTCTACCACTGGACCATGTAAGTCTAGTGTCTTCTGATT 2625
CATGCCTGATATTGGGATTTTTTCCAGCCCTTCTTGATGCCAAGGGCTAATTATATTACATCCCAAGAAACAG 2700
GCATAGAATCTGCCTCCTTTGACCTTGTTCAATCACTATGAAGCAGAGTGAAAGCTGTGGTAGAGTGGTTAACAG 2775
ATACAAGTGCAGTTTCTTAGTTCTCATTTAAGCACTAGTGAATTTTTTTTTTGATATATTAGCAAGTCTGTG 2850
ATGTACTTTCAGTGGCTCTGTTGTACATTGAGATTGTTGTTTAAACAATGCTTCTATGTTTCATATACTGTTTA 2925
CCTTTTCCATGGAGTCTCCTGGCAAGCAATAAATATATATTTATTTAAAAA

FIG. 2B

FIG. 3

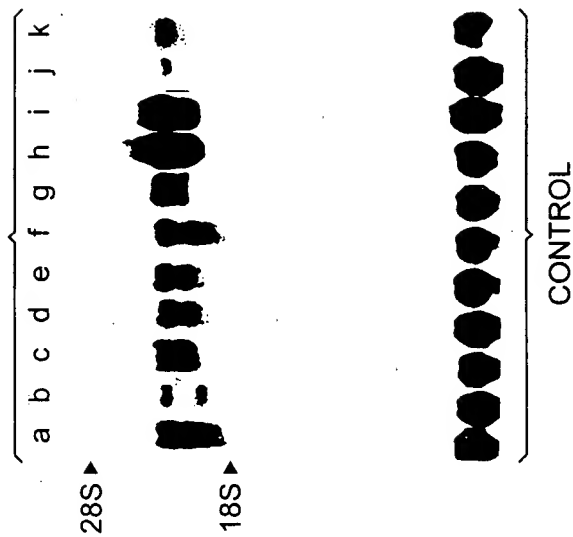
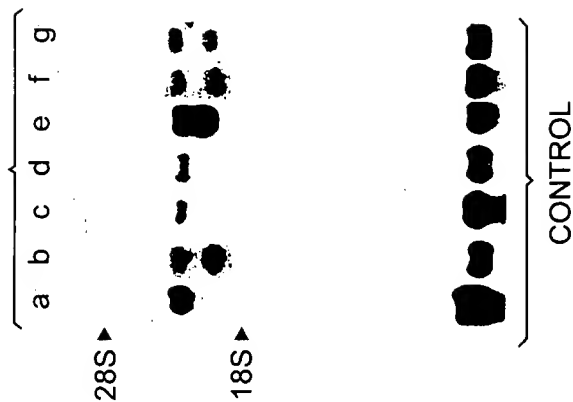


FIG. 4



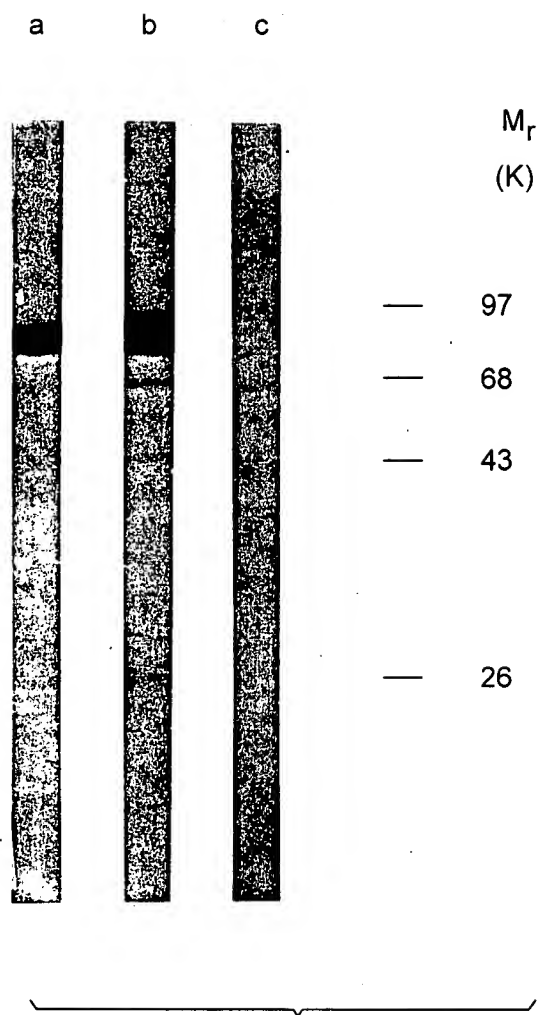
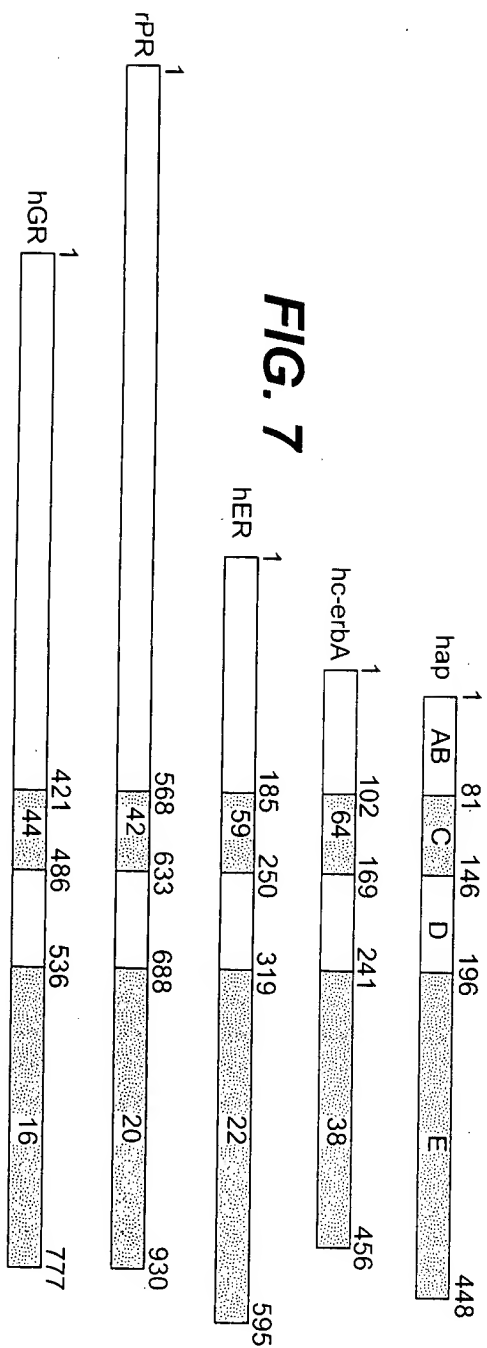


FIG. 5

583 YITGEAEFPATV***

FIG. 6

81	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hap
102	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hc-erba
185	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	her
568	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	rpr
421	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hgr
172	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hap
204	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hc-erba
285	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	her
666	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	rpr
519	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hgr
259	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hap
305	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hc-erba
384	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	her
753	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	rpr
601	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hgr
350	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hap
396	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hc-erba
481	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	her
847	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	rpr
695	CHVODKSSGTHYGVAECCKEFTIRSIQNM	ITCHDRAKCNLAVTNRQICRLOKOPFVGSKESVRDNRNKKETSKOECTESY	hgr





12/02/02

FIG. 8A

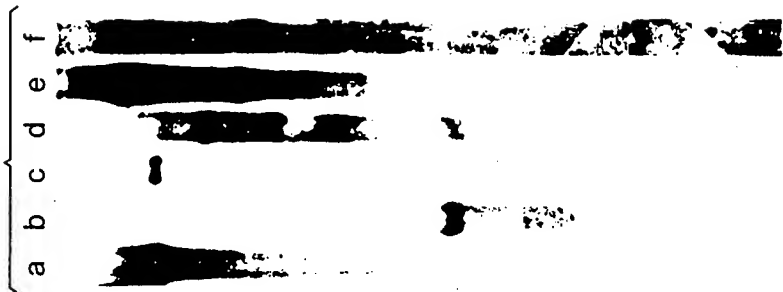


FIG. 8B

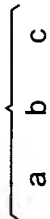


FIG. 8C



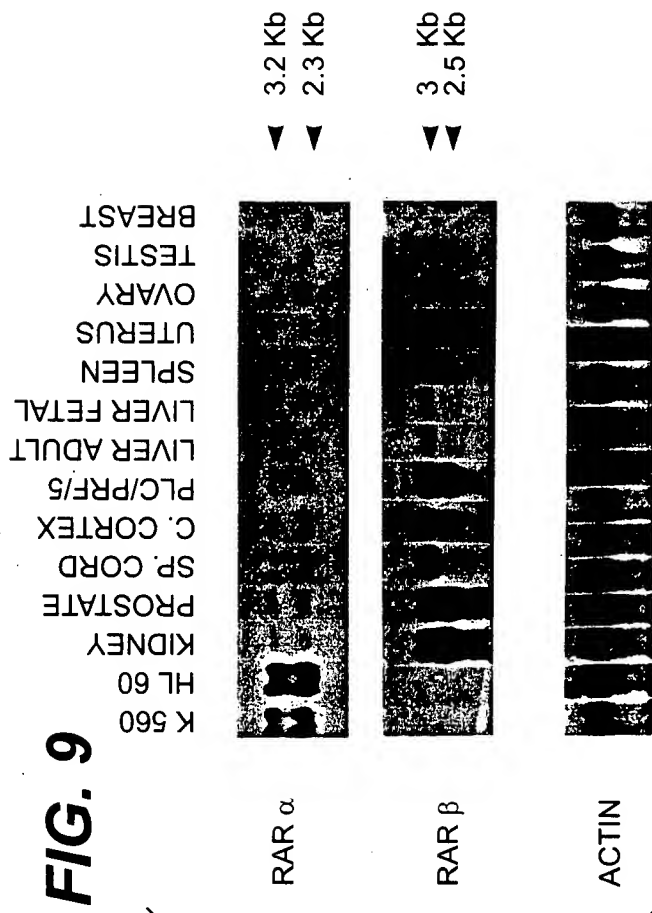
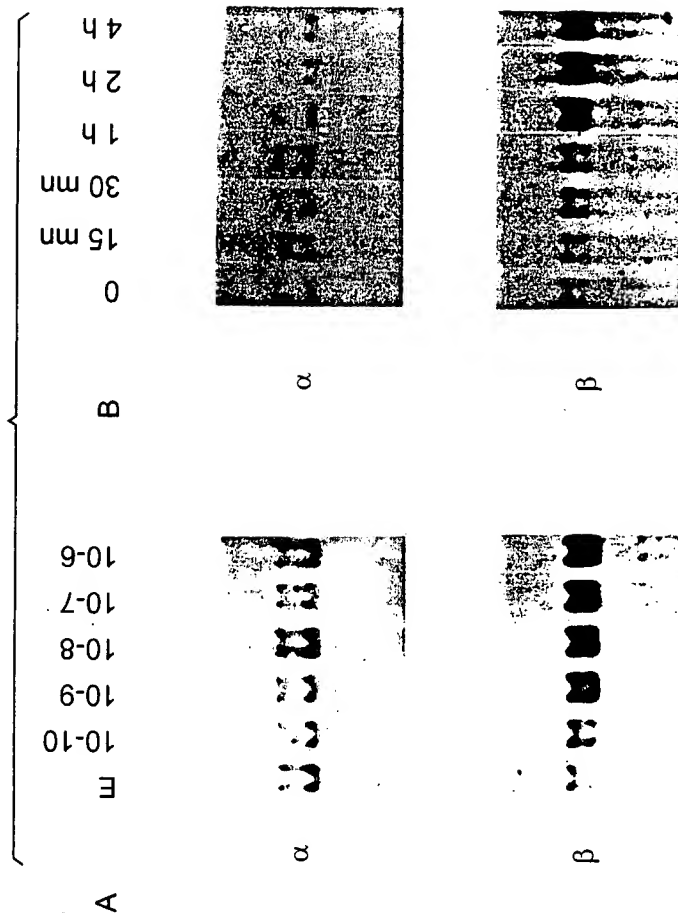


FIG. 10



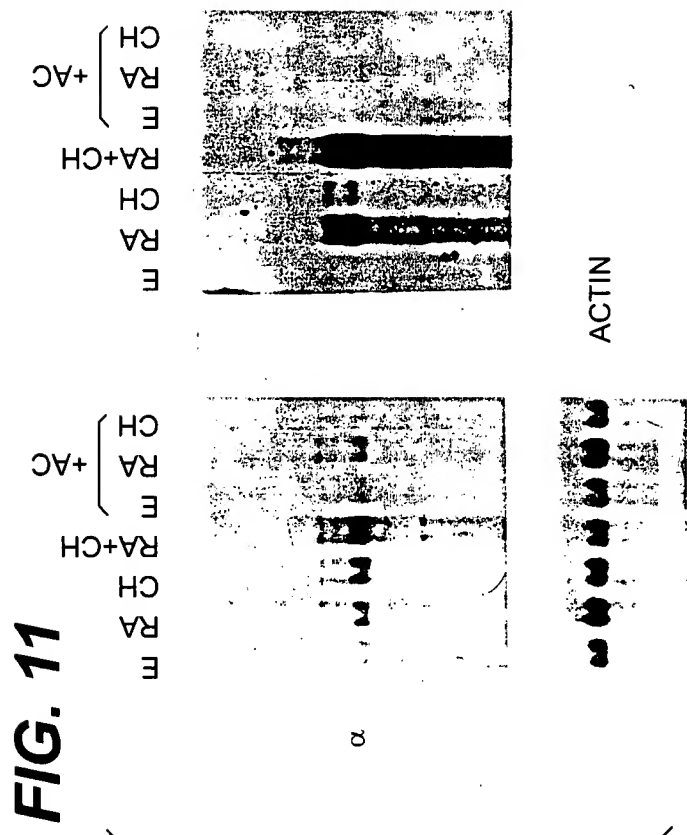


FIG. 12

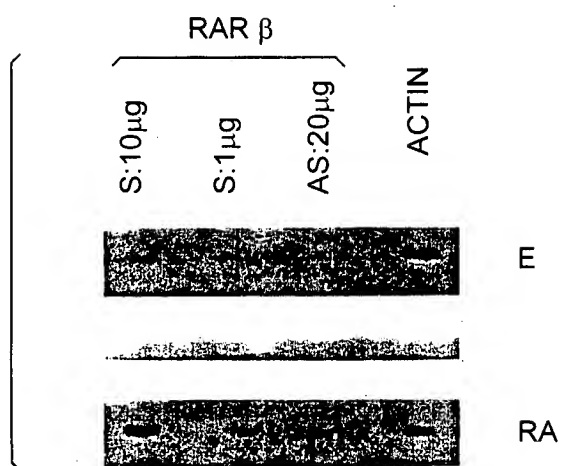
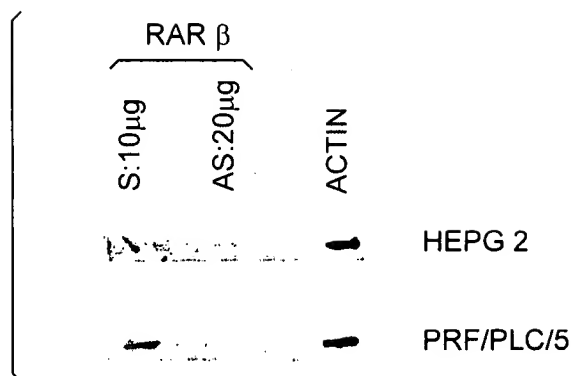


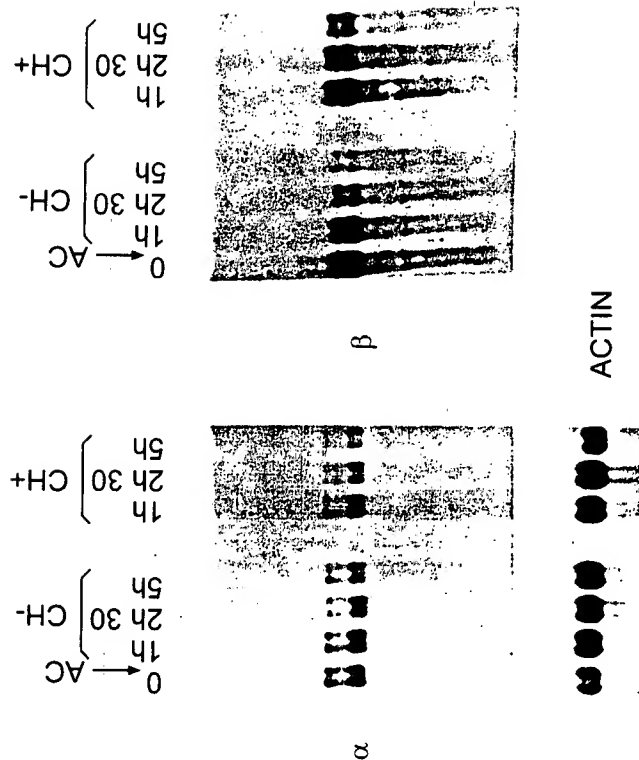
FIG. 13





12/02/02

FIG. 14





5' END

10 20 30 40 50 60 70
CCCATGCGAGCTGTTTGAGGACTGGGATGCCGAGACCGAGCGCATCCGAGCAGGGTTGTCTGGGCACCGT
NLATII TTHIIII FOKI ACCII DPNI BSP1286
ALUI MNLI SFANI FNUDII MBOI BANI
THAI NDEII
SAUIIIA

→ λ13

FIG. 15

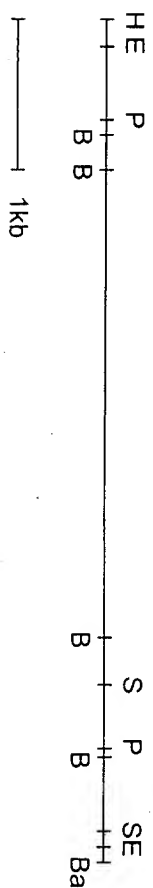


FIG. 16

15